

ABSTRACT

A guiding grid of variable geometry for turbines comprises a turbine housing and a plurality of guiding vanes in the housing in angular distances around a central axis. Each vane is pivotal about an associated pivoting axis to assume different angles in relation to the central axis and, thus, to form a nozzle of variable cross-section between each pair of adjacent vanes. A generally annular nozzle ring supports the adjustment shafts of the guiding vanes. A unison ring is displaceable around the central axis relative to the nozzle ring. This unison ring is operatively connected to the vanes via a transmission mechanism in order to pivot them when being displaced to adjust their respective angular position in relation to the central axis. The transmission mechanism comprises a first transmission element with an opening and a second transmission element slidably engaging this opening. This second transmission element is formed as a lever pivotally articulated on one of said rings and being dragged by this ring during relative movement between the unison ring and the nozzle ring, while immersing into the opening of the first transmission element in approximately radial direction.